

What is claimed is:

1. A channel selection device used in a digital/analog broadcasting receiver comprising:

a receiving device for receiving an encoded digital/analog broadcasting signal originated from a broadcasting station;

a digital/analog decoder for decoding the digital/analog broadcasting signal received from the receiving device and then outputting the signal to a display;

a memory for storing channel information contained in the broadcasting signal decoded by the digital decoder;

a control unit for controlling sections of the receiver, and,

an input device for inputting a user's instruction for channel selection to the control unit;

wherein the device receives a digital broadcast and an analog broadcast which are originated through different channels, the digital broadcast involves one or a plurality of sub-channels for originating contents, which sub-channels are assigned a virtual channel headed by the same main channel number as that for analog broadcast, and;

the control unit, upon reception of the channel selection instruction from the input device, makes the receiving device to receive the broadcasting signal of a selected channel and makes the digital decoder to decode the received broadcasting signal, to obtain the channel information contained in the decoded broadcasting signal and then store the channel information in the memory; characterized

in that,

the input device has UP/DOWN keys and RIGHT/LEFT keys for giving a channel changing instruction, key pairs of which are assigned for main channel switch-over and sub-channel switch-over respectively; and

the control unit preferentially selects the smallest channel number of the sub-channel from among the digital ones if the main channel contains a plurality of sub-channels, in channel changing on the basis of the channel changing instruction sent from the input device.

2. A channel selection device used in a digital/analog broadcasting receiver comprising:

a receiving device for receiving an encoded digital/analog broadcasting signal originated from a broadcasting station;

a digital/analog decoder for decoding the digital/analog broadcasting signal received from the receiving device and then outputting the signal to a display;

a memory for storing channel information contained in the broadcasting signal decoded by the digital decoder;

a control unit for controlling sections of the receiver, and,

an input device for inputting a user's instruction for channel selection to the control unit;

wherein the device receives a digital broadcast and an analog broadcast which are originated through different channels, the digital broadcast involves one or a plurality of sub-channels for

originating contents, which sub-channels are assigned a virtual channel headed by the same main channel number as that for analog broadcast, and;

the control unit makes the receiving device to receive the broadcasting signal of a selected channel and makes the digital decoder to decode the received broadcasting signal, in order to obtain the channel information contained in the decoded broadcasting signal and then store the channel information in the memory; characterized in that,

the input device has UP/DOWN keys and RIGHT/LEFT keys for giving a channel changing instruction, key pairs of which are assigned for main channel switch-over and sub-channel switch-over respectively.

3. The channel selection device used in the digital/analog broadcasting receiver according to claim 2, wherein the control unit, in channel changing on the basis of the channel changing instruction sent from the input device, preferentially selects a preset sub-channel from among a plurality of sub-channels if contained in the main channels.

4. The channel selection device used in the digital/analog broadcasting receiver according to claim 2, further comprising an On-Screen Display (hereinafter abbreviated as OSD) output circuit for providing OSD display of a list of the channel information stored in the memory with digital and analog contents as mixed at the display,

wherein the OSD output circuit displays a list of the channel information on the display such that the main channels are aligned either horizontally or vertically and the sub-channels corresponding to the main channels are aligned either vertically or horizontally respectively, and also displays a channel selecting cursor which is interlocked with the UP/DOWN key or RIGHT/LEFT key operating instruction given through the input device.

5. The channel selection device used in the digital/analog broadcasting receiver according to claim 4, wherein the cursor is directly positioned at the top, when the cursor displayed in the channel information list moves as interlocked with the UP/DOWN key or RIGHT/LEFT key operating instruction for changing the main channel given through the input device.